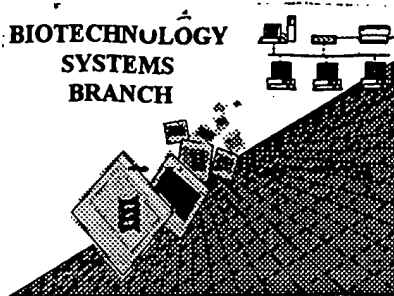


RAW SEQUENCE LISTING ERROR REPORT

BIOTECHNOLOGY
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The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/729,141

Source: 0000 1652

Date Processed by STIC: 12/14/2000

BEST AVAILABLE COPY

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin30help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 - 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

RAW SEQUENCE LISTING

PATENT APPLICATION US/09/729,141

DATE: 12/14/2000

TIME: 09:17:40

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INPUT SET: S36208.raw

DEC 27 2000

TECH CENTER 160072900

This Raw Listing contains the General Information Section and up to the first 5 pages.

all leading must be in upper-case letters

GENERAL INFORMATION: SEQUENCE LISTING

(1) General Information:

(i) APPLICANT:

(A) NAME: Logemann, Juergen

(B) STREET: Lavendeltuin 5

(C) CITY: NB Leiden

(E) COUNTRY: The Netherlands

(F) POSTAL CODE (ZIP): 2317

(A) NAME: Jach, Guido

(B) STREET: Maternusstrasse 22

(C) CITY: Koeln

(E) COUNTRY: Germany

(F) POSTAL CODE (ZIP): 50678

(A) NAME: Goernhardt, Birgit

(B) STREET: Auf dem Kneopp 28

(C) CITY: Koeln

(E) COUNTRY: Germany

(F) POSTAL CODE (ZIP): 51145

(A) NAME: Mundy, John

(B) STREET: NY Carlsberg Vej 6, 4th

(C) CITY: V Copenhagen

(E) COUNTRY: Denmark

(F) POSTAL CODE (ZIP): 1760

(A) NAME: Schell, Jeff

(B) STREET: Carl von Linne Weg 10

(C) CITY: Koeln

(E) COUNTRY: Germany

(F) POSTAL CODE (ZIP): 50829

(A) NAME: Eckes, Peter

(B) STREET: Am Flachsland 18

(C) CITY: Kelkheim (Taunus)

(E) COUNTRY: Germany

(F) POSTAL CODE (ZIP): 65779

(A) NAME: Chet, Ilan

(B) STREET: Shikun Ezrachi

(C) CITY: Nes Ziona

(E) COUNTRY: Israel

(F) POSTAL CODE (ZIP): 70400

Does Not Comply
Corrected Diskette Needed
must be on same line as leading

FYI:

EPO format is
invalid for a U.S.
case

delete these lines

delete

delete

delete

delete

delete

delete

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/729,141DATE: 12/14/2000
TIME: 03:17:40

INPUT SET: S36208.raw

47
48 (ii) TITLE OF INVENTION: Transgenic pathogen-resistant organism49
50 (iii) NUMBER OF SEQUENCES: 1251
52 (iv) CORRESPONDENCE ADDRESS:

53 (A) ADDRESSEE: Baker & Botts

54 (B) STREET: 30 Rockefeller Plaza

55 (C) CITY: New York

56 (D) STATE: New York

57 (E) COUNTRY: U.S.A.

58 (F) ZIP: 10112

59

60 (v) COMPUTER READABLE FORM:

61 (A) MEDIUM TYPE: Floppy disk

62 (B) COMPUTER: IBM PC compatible

63 (C) OPERATING SYSTEM: PC-DOS/MS-DOS

64 (D) SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)

65

66 (vi) CURRENT APPLICATION DATA:

--> 67 (A) APPLICATION NUMBER: ~~reissue application of U.S. Patent No.~~

68 5,804,184

69 (B) FILING DATE: herewith

70

71 (viii) ~~(vii)~~ ATTORNEY/AGENT INFORMATION:--> 72 (A) ~~ATTORNEY~~ NAME: Tenser, Arthur

73 (B) REGISTRATION NUMBER: 18,839

--> 74 (A) ~~(C)~~ ~~AGENT~~ NAME: Kole, Lisa75 (B) ~~(D)~~ REGISTRATION NUMBER: 35,22576 (C) ~~(E)~~ REFERENCE NO: A29542 FWC I- 37/31335

77 REFERENCE/DOCKET NUMBER:

78 (ix) ~~(viii)~~ TELECOMMUNICATION INFORMATION:

79 (A) TELEPHONE: (212) 408-2500

80 (B) TELEFAX: (212) 765-2519

81 (C) TELEX: 238555

82

83

84 (2) INFORMATION FOR SEQ ID NO: 1:

85

86 (i) SEQUENCE CHARACTERISTICS:

87 (A) LENGTH: 275 base pairs

88 (B) TYPE: nucleic acid

89 (C) STRANDEDNESS: single

90 (D) TOPOLOGY: linear

91

92 (ii) MOLECULE TYPE: cDNA

93

94 (vi) ORIGINAL SOURCE:

95 (A) ORGANISM: Aspergillus giganteus

96

97 (ix) FEATURE:

98 (A) NAME/KEY: 5'UTR

99 (B) LOCATION: 1..45

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(viii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER:

(B) FILING DATE!

use

the
serial
number

instead of

the patent
number and

insert it

next to

(A) APPLICATION NUMBER:

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/729,141DATE: 12/14/2000
TIME: 03:17:40

INPUT SET: S36208.raw

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TECH CENTER 1600/2303

(ix) FEATURE:

(A) NAME/KEY: CDS
(B) LOCATION: 46..225
(C) IDENTIFICATION METHOD: experimental
(D) OTHER INFORMATION: /codon_start= 46
/function= "antifungal agent"
/product= "antifungal peptide)"
/evidence= EXPERIMENTAL
/note= "antifungal agent, especially on
Rhizoctonia solani, various Aspergillus, Fusaria
and Trichophyton species"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

TTGCCACCCC	CGTTGAAGCC	GATTCTCTCA	CCGCTGGTGG	TCTGG	ATG	CAA	GAG	54
					Met	Gln	Glu	
					1			
ATG	AGA	GCG	CGG	GTT	TTG	GCC	ACA	102
Met	Arg	Ala	Arg	Val	Leu	Ala	Thr	
	5				10			
GAT	AAT	ATC	TGC	AAG	TAC	AAG	GCA	150
Asp	Asn	Ile	Cys	Lys	Tyr	Lys	Ala	
	20				25			
AAG	TGC	TAT	GTC	AAA	AAG	TGC	CCC	198
Lys	Cys	Tyr	Val	Lys	Lys	Cys	Pro	
			40				45	
GAC	AGC	TAC	AAG	GGG	AAG	TGC	TAC	245
Asp	Ser	Tyr	Lys	Gly	Lys	Cys	Tyr	
			55				60	
GAAGTAGGCT	GGGGGTTATT	TTACTCTGCT						275

(2) INFORMATION FOR SEQ ID NO: 2:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 60 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

RAW SEQUENCE LISTING PATENT APPLICATION US/09/729,141

DATE: 12/14/2000
TIME: 03:17:41

INPUT SET: S36208.raw

```

153 Met Gln Glu Met Arg Ala Arg Val Leu Ala Thr Tyr Asn Gly Lys Cys
154   1           5           10           15
155
156 Tyr Lys Lys Asp Asn Ile Cys Lys Tyr Lys Ala Gln Ser Gly Lys Thr
157           20           25           30
158
159 Ala Ile Cys Lys Cys Tyr Val Lys Lys Cys Pro Arg Asp Gly Ala Lys
160           35           40           45
161
162 Cys Glu Phe Asp Ser Tyr Lys Gly Lys Cys Tyr Cys
163   50           55           60
164
165
166

```

(2) INFORMATION FOR SEQ ID NO: 3:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 51 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

(v) FRAGMENT TYPE: C-terminal

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Aspergillus giganteus

(ix) FEATURE:

- (A) NAME/KEY: Protein
- (B) LOCATION: 1..51
- (D) OTHER INFORMATION: /note= "active protein fragment of AFP"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

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190 Ala Thr Tyr Asn Gly Lys Cys Tyr Lys Lys Asp Asn Ile Cys Lys Tyr
191   1           5           10           15
192
193 Lys Ala Gln Ser Gly Lys Thr Ala Ile Cys Lys Cys Tyr Val Lys Lys
194           20           25           30
195
196 Cys Pro Arg Asp Gly Ala Lys Cys Glu Phe Asp Ser Tyr Lys Gly Lys
197           35           40           45
198
199 Cys Tyr Cys
200   50
201
202

```

(2) INFORMATION FOR SEQ ID NO: 4:

(i) SEQUENCE CHARACTERISTICS:

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/729,141DATE: 12/14/2000
TIME: 03:17:41

INPUT SET: S36208.raw

206 (A) LENGTH: 1032 base pairs
207 (B) TYPE: nucleic acid
208 (C) STRANDEDNESS: single
209 (D) TOPOLOGY: linear
210
211 (ii) MOLECULE TYPE: cDNA
212
213 (vi) ORIGINAL SOURCE:
214 (A) ORGANISM: Hordeum vulgare
215 (B) STRAIN: L.cv. Piggy
216
217 (vii) IMMEDIATE SOURCE:
218 (A) LIBRARY: cDNA gene bank in lambda-gt-11-phages
219
220 (ix) FEATURE:
221 (A) NAME/KEY: 5'UTR
222 (B) LOCATION: 1..42
223
224 (ix) FEATURE:
225 (A) NAME/KEY: CDS
226 (B) LOCATION: 43..885
227 (D) OTHER INFORMATION: /codon_start= 43
228 /function= "antifungal activity"
229 /product= "protein synthesis inhibitor (PSI)"
230 /note= "antifungal activity, especially on spores
231 of Trichoderma reesii and Fusarium sporotrichoides
232 and on Rhizoctonia solani."
233
234 (ix) FEATURE:
235 (A) NAME/KEY: 3'UTR
236 (B) LOCATION: 886..1032
237 (D) OTHER INFORMATION: /partial
238 /note= "46 nucleotides at the 3'-end not shown."
239

SEQUENCE VERIFICATION REPORT
PATENT APPLICATION US/09/729,141DATE: 12/14/2000
TIME: 03:17:42**INPUT SET: S36208.raw**

Line	Error	Original Text
5	Mandatory Value Not Present	(i) APPLICANT:
6	Unknown or Misplaced Identifier	(A) NAME: Logemann, Juergen
7	Unknown or Misplaced Identifier	(B) STREET: Lavendeltuyn 5
8	Unknown or Misplaced Identifier	(C) CITY: NB Leiden
9	Unknown or Misplaced Identifier	(E) COUNTRY: The Netherlands
10	Unknown or Misplaced Identifier	(F) POSTAL CODE (ZIP): 2317
12	Unknown or Misplaced Identifier	(A) NAME: Jach, Guido
13	Unknown or Misplaced Identifier	(B) STREET: Maternusstrasse 22
14	Unknown or Misplaced Identifier	(C) CITY: Koeln
15	Unknown or Misplaced Identifier	(E) COUNTRY: Germany
16	Unknown or Misplaced Identifier	(F) POSTAL CODE (ZIP): 50678
18	Unknown or Misplaced Identifier	(A) NAME: Goernhardt, Birgit
19	Unknown or Misplaced Identifier	(B) STREET: Auf dem Knoepp 28
20	Unknown or Misplaced Identifier	(C) CITY: Koeln
21	Unknown or Misplaced Identifier	(E) COUNTRY: Germany
22	Unknown or Misplaced Identifier	(F) POSTAL CODE (ZIP): 51145
24	Unknown or Misplaced Identifier	(A) NAME: Mundy, John
25	Unknown or Misplaced Identifier	(B) STREET: NY Carlsberg Vej 6, 4th
26	Unknown or Misplaced Identifier	(C) CITY: V Copenhagen
27	Unknown or Misplaced Identifier	(E) COUNTRY: Denmark
28	Unknown or Misplaced Identifier	(F) POSTAL CODE (ZIP): 1760
30	Unknown or Misplaced Identifier	(A) NAME: Schell, Jeff
31	Unknown or Misplaced Identifier	(B) STREET: Carl-von-Linne-Weg 10
32	Unknown or Misplaced Identifier	(C) CITY: Koeln
33	Unknown or Misplaced Identifier	(E) COUNTRY: Germany
34	Unknown or Misplaced Identifier	(F) POSTAL CODE (ZIP): 50829
36	Unknown or Misplaced Identifier	(A) NAME: Eckes, Peter
37	Unknown or Misplaced Identifier	(B) STREET: Am Flachsland 18
38	Unknown or Misplaced Identifier	(C) CITY: Kelkheim (Taunus)
39	Unknown or Misplaced Identifier	(E) COUNTRY: Germany
40	Unknown or Misplaced Identifier	(F) POSTAL CODE (ZIP): 65779
42	Unknown or Misplaced Identifier	(A) NAME: Chet, Ilan
43	Unknown or Misplaced Identifier	(B) STREET: Shikun Ezrachi
44	Unknown or Misplaced Identifier	(C) CITY: Nes Ziona
45	Unknown or Misplaced Identifier	(E) COUNTRY: Israel
46	Unknown or Misplaced Identifier	(F) POSTAL CODE (ZIP): 70400
67	Wrong application Serial Number	(A) APPLICATION NUMBER: reissue application of U.S.
72	Unknown or Misplaced Identifier	(A) ATTORNEY NAME: Tenser, Arthur
74	Unknown or Misplaced Identifier	(C) AGENT NAME: Kole, Lisa